(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 29 September 2005 (29.09.2005)

PCT

(10) International Publication Number WO 2005/090654 A1

(51) International Patent Classification⁷:

D01F 1/06

(21) International Application Number:

PCT/US2005/008414

(22) International Filing Date: 14 March 2005 (14.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/553,513

16 March 2004 (16.03.2004) US

- (71) Applicant (for all designated States except US): UNI-VERSITY OF DELAWARE [US/US]; Office of the Vice Provost for Research, 210 Hullihen Hall, Newark, DE 19716 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): RABOLT, John,F. [US/US]; 904 Westover Road, Greenville, DE 19807 (US). BIANCO, Andrea [IT/IT]; Via Magni 6, I-22044 Inverigo (IT).
- (74) Agent: PEZZNER, Ashley, I.; Connolly Bove Lodge & Hutz LLP, 1007 North Orange Street, P.O. Box 2207, Wilmington, DE 19899 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ACTIVE AND ADAPTIVE PHOTOCHROMIC FIBERS, TEXTILES AND MEMBRANES